

WEST

Ernesto A
Ernesto A
ETA



Generate Collection

Print

L10: Entry 18 of 55

File: USPT

Feb 20, 2001

US-PAT-NO: 6190669

DOCUMENT-IDENTIFIER: US 6190669 B1

TITLE: Attenuated mutants of salmonella which constitutively express the Vi antigen

DATE-ISSUED: February 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noriega; Fernando R.	Baltimore	MD		
Sztejn; Marcelo B.	Columbia	MD		
Levine; Myron M.	Columbia	MD		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
University of Maryland, Baltimore	Baltimore	MD			02

APPL-NO: 9/ 076761 [PALM]

DATE FILED: May 13, 1998

INT-CL: [7] A61 K 39/112

US-CL-ISSUED: 424/258.1, 424/93.1, 424/93.2, 424/93.4, 424/93.48, 424/831, 435/879, 935/33, 935/38, 935/41

US-CL-CURRENT: 424/258.1, 424/831, 424/93.1, 424/93.2, 424/93.4, 424/93.48, 435/879

FIELD-OF-SEARCH: 424/184.1, 424/234.1, 424/258.1, 424/93.1, 424/93.4, 424/831, 424/93.48, 424/93.2, 935/33, 935/41, 935/38, 435/822, 435/879

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

1 to
PU
US 98/25746
Dec 4, 1998

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5077044</u>	December 1991	Stocker	424/92
<input type="checkbox"/>	<u>5783196</u>	July 1998	Noriega	424/234.1

OTHER PUBLICATIONS

Robbins et al, J. Infect. Dis., 150 (3):436-449 (1984).
Cryz, Jr. et al, Infect. Immun., 57(12):3863-3868 (1989).
Cao et al, Infect. Immun., 60(7):2823-2827 (1992).
Pickard et al, Infect. Immun., 62(9):3984-3993 (1994).
Noriega et al, Infect. Immun., 64(8):3055-3061 (1996).
McFarland et al, Microbial Pathogenesis, 3:129-141 (1987).
Testa-Selase et al, Mol. Gen. Genet., 231:256-264 (1992).
Hosieth et al, Nature, 291:238-239 (1981).
Edwards et al, J. Bacteriol., 170(9):3991-3995 (1988).
Levine et al, J. Clin. Invest., 79:888-902 (1987).
Levine et al, Rev. of Infect. Dis., II(3):S552-S567 (1989).
O'Callaghan et al, Infect. Immun., 56(2):419-423 (1988).
Sigwart et al, Infect. Immun., 57(6):1858-1861 (1989).
Murray et al, J. Bacteriol., 175(16):5216-5223 (1993).
Gilbert et al, Biochem. J., 191:533-541 (1980).
Lindberg, Dev. Biol. Stand. Basel, Karger, 84:211-219 (1995).
Nataro et al, Infect. Immun., 63(12): 4721-4728 (1995).
Noriega et al, "Construction and Characterization of Oral Attenuated Shigella Vaccine-Candidates and their Potential Use as Live Vector-Hybrid Vaccines", pp. 166-168, Abstracts, 29th Joint Conference on Cholera and Related Diarrheal Diseases (Dec. 23, 1993).
Bacon et al, Br. J. Exp. Path., 31:714-724 (1950).
Karnell et al, Vaccine, 11 (8):830-836 (1993).
Verma et al, Vaccine, 9:6-9 (1991).
Neidhardt, "Escherichia coli and Salmonella Typhimurium", Cellular and Molecular Microbiol., Section 29, Purines and Pyrimidines, p. 449 (1987).
Noriega, Am. Soc. of Microbiol., 34:188 (1994).
Pickard et al, Infection and Immunity 62(9):3984-3993, 1994.
Cryz et al, Infection and Immunity 57(12):3863-3768, 1989.

ART-UNIT: 163

PRIMARY-EXAMINER: Duffy, Patricia A.

ATTY-AGENT-FIRM: Sughrue, Mion, Zinn Macpeak & Seas. PLLC

ABSTRACT:

Attenuated Salmonella mutants which constitutively express the Vi antigen are disclosed, as well as vaccines against typhoid fever containing the same, live vector vaccines containing the same, and DNA-mediated vaccines containing the same.

23 Claims, 17 Drawing figures